

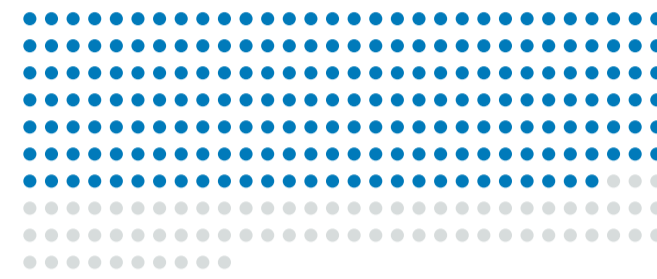
# ARTIFICIAL INTELLIGENCE & CYBERSECURITY: BALANCING INNOVATION, EXECUTION AND RISK

Digital transformation has improved operational efficiency while creating new risks to organizational networks. More remote working during the COVID-19 pandemic has only accelerated this costly trend.



Global average total cost of a data breach in 2020

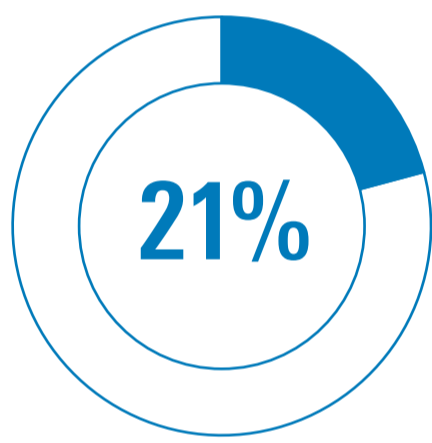
280



Average number of days to **identify and contain** a breach (207 to identify/73 to contain).<sup>1</sup>

Enter artificial intelligence, or AI, which presents both opportunities and challenges for organizations using technology to improve cyber defenses.

Share of organizations with fully deployed security automation:



up from just 15% in 2018<sup>2</sup>

AI in cybersecurity market

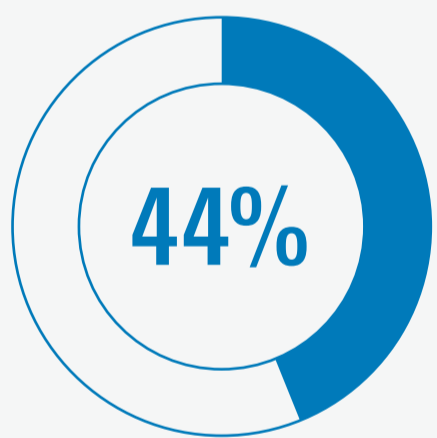


US\$10.5bn 2020

23.6% CAGR

US\$46.3bn 2027<sup>3</sup>

While AI generates new cyber risks, companies are also increasingly adopting AI tools to strengthen security.



44% of global organizations are implementing AI to detect and deter security intrusions<sup>4</sup>



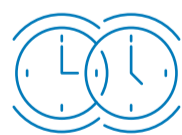
Data security is the **#1 reason** many professionals are deploying AI According to a recent IBM survey<sup>5</sup>

Adoption of AI in cybersecurity is likely to continue to grow over the next 5 years. Companies should:

## Realize the opportunities



Automated threat detection



Around-the-clock monitoring

## Recognize the limits



AI can identify but not explain anomalies



Need to maintain human participation

## Identify organizational challenges



Weak systems and new risks, heightened by pandemic-driven shift to remote work



Growing need for strong cyber policies, heavy onus of data privacy regulatory compliance

## Support a changing landscape



A march toward global consensus on AI standards will impact cyber policy



A heightened awareness of AI benefits and risks necessitates increased transparency

<sup>1</sup> IBM Security, "Cost of a Data Breach Report 2020" (2020)

<sup>2</sup> Ibid.

<sup>3</sup> Meticulous Market Research Pvt. Ltd. (2020)

<sup>4</sup> Consumer Technology Association/Mordor Intelligence

<sup>5</sup> IBM, "From Roadblock to Scale: The Global Sprint Towards AI" (2020)